

Report on AAPPS-DPP 2023

2024.1.4 Mitsuru Kikuchi, AAPPS-DPP CEO

1. 7th DPP Annual Conference

Division of plasma physics (DPP) annually holding Asia-Pacific conference on Plasma Physics. The seventh annual conference (AAPPS-DPP2023) was held at Port-Messe, Nagoya, Japan during Nov 12-17, 2023. Figure 1 shows Opening session speakers and DPP award winners of AAPPS-DPP2023.



Figure 1 Opening session group photo of AAPPS-DPP2023

Shao, HH Kim, DH Lee, S. Ghorui, S. Xu, A. Mai-Prochnow, M. Keidar, having 83 presentations. Laser plasma session discussed Laser-plasma interaction, Laser fusion, wake-field acceleration led by Hyyong Suk, M. Chen, S. Fujioka, K. Lee, PK Singh having 63 presentations. Space / Geomagnetism session discussed mostly space plasma physics and magnetic reconnection led by Y. Omura, P. Yoon, QM Lu having 55 presentations. Solar/Astro session discussed solar plasma physics and astro plasma physics led by PF Chen, R. Matsumoto, J. Cho having 48 presentations. Magnetic Fusion session (Core and Edge plasma) is led by Jae-Min Kwon, M. Xu, E. Narita, YS Na having 173 presentations. Organized Session is led by Katsumi Ida, Y. Liang, CK Sung having 38 presentations. Among them, 2023 S. Chandrasekhar lecture is given by Katsumi Ida and 2023 Plasma Innovation Lecture given by Takayuki Watanabe. We also celebrated 8 U40 winners and 6 U30 winners.

Table 1 Distribution of presentations

	Plenary	Top. Pl	Invited	Oral	Poster	Total
Opening	8	-	-	-	-	8
Chandra & PIP	2	-	-	-	-	2
Cross Disciplinary	4	4	21	9	0	38
Fundamental	4	0	33	11	13	61
Basic	4	0	33	17	36	90
Applied	4	0	46	17	16	83
Laser plasma	4	0	34	14	11	63
Space/Geomag	4	3	27	11	10	55
Solar/Astro	4	0	27	14	3	48
Magnetic Fusion	5	0	67	50	51	173
Organized Session	3	6	29	0	0	38
Poster Prize	1	-	-	-	-	1
Closing	1	-	-	-	-	1
Total	48	13	317	143	140	661

Table 1 shows distribution of 661 presentations among plenary, topical plenary, invited, oral, and poster for various sub-disciplines. AAPPS-DPP2023 consists of 48 plenary talks, 13 topical plenary talks, 317 invited talks, 143 oral talks, and 140 poster presentations. Cross-disciplinary session led by PH Diamond, E. Kim, TS Hahm having 38 presentations. Fundamental session is fundamental discipline common to all plasma physics area and had joint session with magnetic fusion plasma led by R. Dewar, PJ Morrison having 61 presentations. Basic session discussed methods common to all plasma physics as well as small scale plasma research and dusty/quantum plasmas led by S. Bhattacharjee, T. Yamada, F. Haas, Y. Feng, TH Watanabe, I. Murakami, M. Nishiura, K. Takahashi having 90 presentations. Applied session discussed applied plasma physics such as semi-conductor, medicine, agriculture, led by Tao

Table 2 Regional distribution of participants

Region	No	Female	Presenters	Region	No	Female	Presenters
Japan	286	38	214	Swiss	3	1	3
China	185	41	204	Singapore	3	0	5
India	41	7	55	Spain	3	0	3
USA	41	4	44	Nepal	2	0	2
Korea	33	4	33	Malaysia	2	0	2
England	15	3	14	Brazil	2	0	2
Australia	14	3	17	Austria	2	0	
France	12	4	9	Greece	2	0	3
Taiwan	11	2	11	Canada	1	0	2
Germany	9	4	9	Denmark	1	0	1
Pakistan	8	5	9	Israel	1	0	1
Philippines	6	3	6	Slovenia	1	0	1
Belgium	5	1	6	Thailand	1	0	1
Italy	4	1	4	Total	694	121	661

* France include ITER organization

Table 2 shows distribution of region/countries and gender balance. Most notably, we note several participants from Pakistan and Philippines.

While participation from APS (42) and EPS(58) are significant, we had participants from a South American country, i.e. Brazil(2).

As for the gender balance, we had 121 female participants. Many female researchers joined from China and Pakistan, especially.

We had 3 satellite meetings, 1) Space plasma WS on Wave-particle interaction organized by Yuto Kato, 2) Mini-symposium on Women in Plasma Physics organized by A. Mai-Prochnow, 3) Fusion private sector symposium organized by Helical Fusion.